1 INTRODUCTION

Commercial Vehicle Information Systems and Networks (CVISN) is the collection of state, federal, and private sector information systems and communications networks that support commercial vehicle operations.

Electronic screening is one of the three key program areas in CVISN Level 1. The *CVISN Guide to Electronic Screening* provides reference information and offers advice about implementing electronic screening functions in CVISN.

This is one in a series of guides. The other guides are available from the CVISN web site (http://www.jhuapl.edu/cvisn/). CVISN concepts and program areas are outlined in the *Introductory Guide to CVISN* (Reference 1).
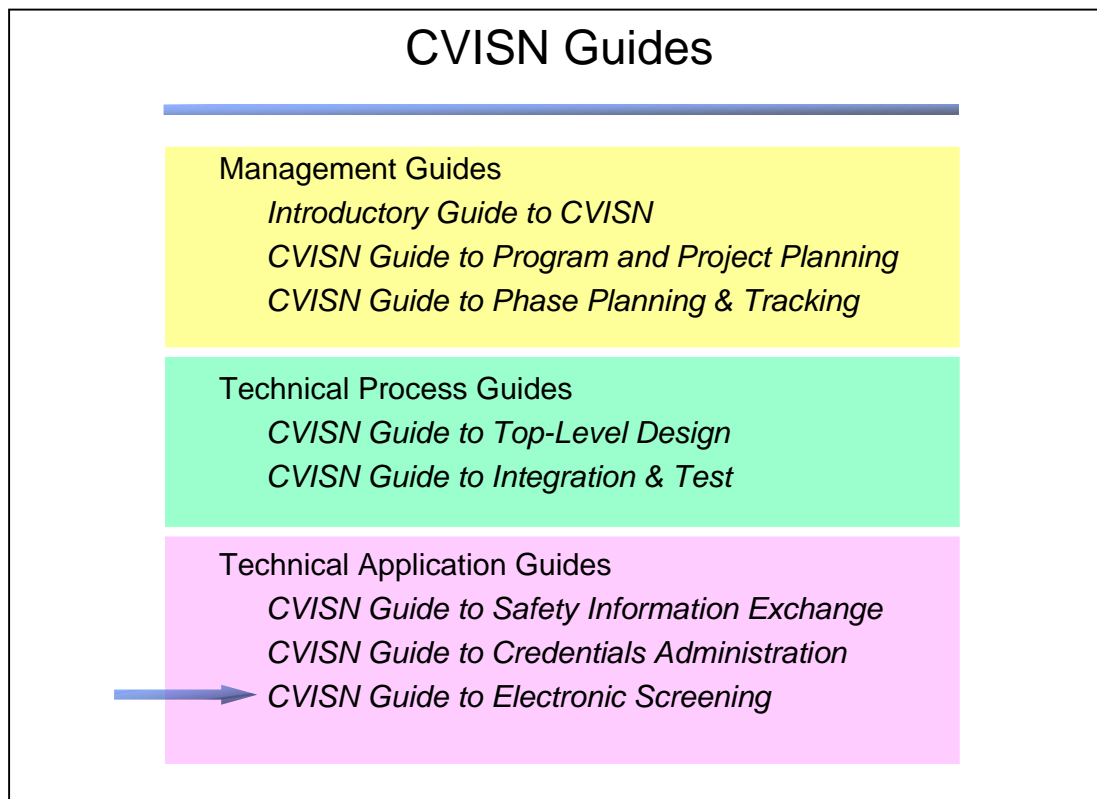

Figure 1–1. CVISN Guides

Subsequent chapters of this guide discuss the concepts, systems, development processes, and issues associated with electronic screening.

General Recommendations

The following general recommendations should be incorporated throughout the design and implementation of electronic screening systems:

- The implementation should be based on a simple and expandable design.
- The design should allow for refinement of key standards as they continue to develop, including the Dedicated Short Range Communications (DSRC) standards and the Safety and Fitness Electronic Records (SAFER) snapshot definitions.
- The system design specification should be consistent with the CVISN architecture specifications, which are derived from the National Intelligent Transportation Systems (ITS) Architecture.
- Periodic technical reviews should be held with the contractors and system integrators to ensure consistency with the CVISN architecture, design, and standards.
- The final system should pass a set of CVISN interoperability tests.
- A comprehensive set of technical documentation should be provided by the vendor to the state, upon completion of the effort.

This recommended development path should ensure that the deployed system is consistent with the CVISN architecture and achieves technical interoperability with other electronic screening programs.